

SIEMENS

Product data sheet

6ES7135-4GB52-0AB0


SIMATIC DP,
ELECTRONIC MODULE FOR ET 200S,
2 AO I HIGH SPEED 15 MM WIDE, +/-20 mA;
16 BIT, 4 . .20 mA;
16 BIT CYCLE TIME 0.1 MS WITH LED SF (GROUP
FAULT)

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	150 mA ; With load
from backplane bus 3.3 V DC, max.	10 mA
Power losses	
Power loss, max.	2.4 W ; Typical
Address area	
Address space per module	
Address space per module, max.	4 byte
Analog outputs	
Number of analog outputs	2
Current output, no-load voltage, max.	18 V

Cycle time (all channels) max.	250 μ s
Output ranges, current	
-20 to +20 mA	Yes
4 to 20 mA	Yes
Connection of actuators	
for current output 2-conductor connection	Yes
Load impedance (in rated range of output)	
with current outputs, max.	500 Ω
with current outputs, inductive load, max.	1 mH ; for TWA 100 μ s
Destruction limits against externally applied voltages and currents	
Current, max.	15 mA ; Max. 15 V / 5 hours (higher voltages not permissible even briefly)
Cable length	
Cable length, shielded, max.	200 m ; Max. 20 m for TWA 100 μ s
Analog value creation	
Integrations and conversion time/ resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit
Settling time	
for resistive load	0.05 ms
for capacitive load	0.05 ms ; at a load of up to 500 ohms/100 nF and a max. cable length of 20 m
for inductive load	0.05 ms
Errors/accuracies	
Output ripple (based on output area, bandwidth 0 to 50 kHz)	+/- 0,02 %
Linearity error (relative to output area)	+/- 0,03 % ; with resistive load
Temperature error (relative to output area)	+/- 0,01 %/K
Crosstalk between the outputs, min.	-60 dB
Repeat accuracy in settled status at 25 °C (relative to output area)	+/- 0,03 %
Operational limit in overall temperature range	
Current, relative to output area	+/- 0,2 % ; Specified value applies to loads from 200 to 350 Ohm, deviating operational limits for loads up to 200 Ohm and from 350 to 500 Ohm with up to 0.4%

Basic error limit (operational limit at 25 °C)	
Current, relative to output area	+/- 0,1 % ; Specified value applies for loads from 200 to 350 ohms, deviating basic error limits for loads up to 200 ohms and from 350 to 500 ohms with up to 0.3%
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
Interrupts/diagnostics/status information	
Substitute values connectable	Yes
Diagnostic messages	
Diagnostic functions	Yes
Diagnostic information readable	Yes
Wire break	Yes
Group error	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Parameter	
Remark	7 bytes
Output type/range	deactivated / +/-20 mA / 4 to 20 mA
Diagnosis: wire break	Disable / enable
Group diagnostics	Disable / enable
Behavior on CPU/Master STOP	Output current and de-energized/substitute a value/keep last value
Galvanic isolation	
Galvanic isolation analog outputs	
Galvanic isolation analog outputs	Yes
between the channels	No
between the channels and the backplane bus	Yes
between the channels and the load voltage L+	Yes
Permissible potential difference	
between MANA and M internally (UIISO)	75 VDC / 60 VAC
Isolation	
Isolation checked with	500 V DC
Dimensions	

Width	15 mm
Height	81 mm
Depth	52 mm
Weight	
Weight, approx.	45 g
Status	Jul 17, 2012